**CLAIMS:**

What is claimed is:

1. A method for securing cellular telephone transmissions utilizing a conventional cellular telephone, said method comprising the steps of:

providing a conventional cellular telephone, said conventional cellular telephone being incapable of independently encrypting or decrypting signals;

providing a computer system coupled between an external microphone and said cellular telephone, wherein inputs into said cellular telephone are received first by said computer system, said computer system being separate and apart from said cellular telephone;

receiving, within said computer system, an input signal from said external microphone;

encrypting, within said computer system, said input signal utilizing public key encryption;

passing said encrypted input signal from said computer system to said cellular telephone; and

transmitting said encrypted input signal utilizing said cellular telephone, wherein cellular telephone transmissions from said cellular telephone are secured.

2. The method according to claim 1, further comprising the step of encrypting, within said computer system, said input signal utilizing a key pair, said key pair including a public key and a private key.

3. The method according to claim 2, further comprising the step of encrypting, within said computer system, said input signal utilizing said public key.

4. The method according to claim 1, further comprising the steps of:

receiving, within a Java application executing within said computer system, said input signal from said external microphone;

encrypting, utilizing said Java application, said input signal utilizing public key encryption; and

passing said encrypted input signal from said Java application to said cellular telephone.

5. The method according to claim 1, further comprising the step of passing said encrypted signal from said computer system to a microphone port included in said cellular telephone.

6. The method according to claim 1, further comprising the steps of:

providing a second conventional cellular telephone, said second conventional cellular telephone being incapable of independently encrypting or decrypting signals;

providing a second computer system coupled between an external speaker and said second cellular telephone, wherein outputs from said second cellular telephone are received first by said second computer system before being output to said speaker, said second computer system being separate and apart from said second cellular telephone;

receiving, within said second computer system, an encrypted output from a speaker port included within said second cellular telephone;

decrypting, within said second computer system, said encrypted output utilizing public key encryption; and

outputting said decrypted output from said second computer system to said external speaker.

7. The method according to claim 6, further comprising the step of encrypting, within said computer system, said input signal utilizing a key pair, said key pair including a public key and a private key.

8. The method according to claim 7, further comprising the step of encrypting, within said computer system, said input signal utilizing said public key.

9. The method according to claim 8, further comprising the steps of:

obtaining, by said second computer system, said private key of said computer system; and

decrypting said encrypted input signal utilizing said private key.

10. The method according to claim 9, further comprising the step of exchanging said private key between said computer system and said second computer system prior to transmissions of cellular telephone signals.

11. A system for securing cellular telephone transmissions utilizing a conventional cellular telephone, comprising:

a conventional cellular telephone, said conventional cellular telephone being incapable of independently encrypting or decrypting signals;

computer system coupled between an external microphone and said cellular telephone, wherein inputs into said cellular telephone are received first by said computer system, said computer system being separate and apart from said cellular telephone;

said computer system for receiving an input signal from said microphone;

said computer system for encrypting said input signal utilizing public key encryption;

said computer system for passing said encrypted input signal from said computer system to said cellular telephone; and

said cellular telephone for transmitting said encrypted input signal, wherein cellular telephone transmissions from said cellular telephone are secured.

12. The system according to claim 11, further comprising said computer system for encrypting said input signal utilizing a key pair, said key pair including a public key and a private key.

13. The system according to claim 12, further comprising said computer system for encrypting said input signal utilizing said public key.

14. The system according to claim 11, further comprising:

Java application executing within said computer system for receiving said input signal from said microphone;

said Java application for encrypting said input signal utilizing public key encryption;

said Java application for passing said encrypted input signal from said Java application to said cellular telephone.

15. The system according to claim 11, further comprising said computer system for passing said encrypted signal from said computer system to a microphone port included in said cellular telephone.

16. The system according to claim 11, further comprising:

a second conventional cellular telephone, said second conventional cellular telephone being incapable of independently encrypting or decrypting signals;

a second computer system coupled between an external speaker and said second cellular telephone, wherein outputs from said second cellular telephone are received first by said second computer system before being output to said speaker, said second computer system being separate and apart from said second cellular telephone;

said second computer system for receiving an encrypted output from a speaker port included within said second cellular telephone;

said second computer system for decrypting said encrypted output utilizing public key encryption; and

said second computer system for outputting said decrypted output from said second computer system to said speaker.

17. The system according to claim 16, further comprising said computer system for encrypting said input signal

utilizing a key pair, said key pair including a public key and a private key.

18. The system according to claim 17, further comprising said computer system for encrypting said input signal utilizing said public key.

19. The system according to claim 18, further comprising:

said second computer system for obtaining said private key of said computer system; and

said second computer system for decrypting said encrypted input signal utilizing said private key.

20. The system according to claim 19, further comprising said computer system for exchanging said private key between said computer system and said second computer system prior to transmissions of cellular telephone signals.

21. A computer program product executing within a data processing system for securing cellular telephone transmissions utilizing a conventional cellular telephone, said computer program product comprising the data processing system implemented steps of:

instruction means for providing a conventional cellular telephone, said conventional cellular telephone being incapable of independently encrypting or decrypting signals;

instruction means for providing a computer system coupled between an external microphone and said cellular telephone, wherein inputs into said cellular telephone

are received first by said computer system, said computer system being separate and apart from said cellular telephone;

instruction means for receiving, within said computer system, an input signal from said microphone;

instruction means for encrypting, within said computer system, said input signal utilizing public key encryption;

instruction means for passing said encrypted input signal from said computer system to said cellular telephone; and

instruction means for transmitting said encrypted input signal utilizing said cellular telephone, wherein cellular telephone transmissions from said cellular telephone are secured.

22. The product according to claim 21, further comprising instruction means for encrypting, within said computer system, said input signal utilizing a key pair, said key pair including a public key and a private key.

23. The product according to claim 22, further comprising instruction means for encrypting, within said computer system, said input signal utilizing said public key.

24. The product according to claim 21, further comprising:

instruction means for receiving, within a Java application executing within said computer system, said input signal from said microphone;

instruction means for encrypting, utilizing said Java application, said input signal utilizing public key encryption;

instruction means for passing said encrypted input signal from said Java application to said cellular telephone.

25. The product according to claim 21, further comprising instruction means for passing said encrypted signal from said computer system to a microphone port included in said cellular telephone.

26. The product according to claim 21, further comprising:

instruction means for providing a second conventional cellular telephone, said second conventional cellular telephone being incapable of independently encrypting or decrypting signals;

instruction means for providing a second computer system coupled between an external speaker and said second cellular telephone, wherein outputs from said second cellular telephone are received first by said second computer system before being output to said speaker, said second computer system being separate and apart from said second cellular telephone;

instruction means for receiving, within said second computer system, an encrypted output from a speaker port included within said second cellular telephone;

instruction means for decrypting, within said second computer system, said encrypted output utilizing public key encryption; and

instruction means for outputting said decrypted output from said second computer system to said speaker.

27. The product according to claim 26, further comprising instruction means for encrypting, within said computer system, said input signal utilizing a key pair, said key pair including a public key and a private key.

28. The product according to claim 27, further comprising instruction means for encrypting, within said computer system, said input signal utilizing said public key.

29. The product according to claim 28, further comprising:

instruction means for obtaining, by said second computer system, said private key of said computer system; and

instruction means for decrypting said encrypted input signal utilizing said private key.

30. The product according to claim 29, further comprising instruction means for exchanging said private key between said computer system and said second computer system prior to transmissions of cellular telephone signals.